NAC-STC: TRANSPORT-READY, LICENSED FOR MODERN COMMERCIAL FUELS

KEY FEATURES

- Designed for both storage and transportation of commercial spent nuclear fuel
- Licensed for canisters of specific BWR and PWR spent fuel, reconfigured fuel assemblies, Greater than Class C (GTCC) waste, and high level wastes (HLW)
- Can be directly-loaded with up to 26 PWR intact spent fuel assemblies, including high burnup spent fuel
- Meets all applicable NRC, U.S. Department of Transportation and IAEA requirements



The NAC-STC is a high-capacity dual-purpose spent fuel packaging system – the first U.S. Nuclear Regulatory Commission (NRC)-licensed cask design for both storage and transportation of commercial spent nuclear fuel.

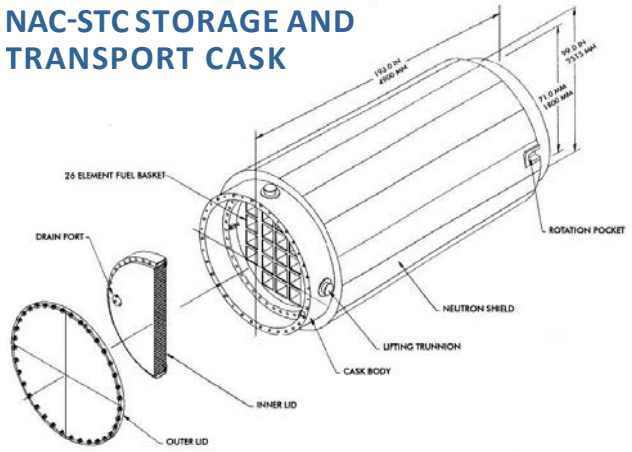
NAC's orders for over 800 transportable nuclear fuel systems worldwide includes delivery of 16 NAC-STC casks.

The NAC-STC is a steel/lead/steel multi-wall cask. It is dual-purposed for the storage and rail transport of canisters or bare fuel. In addition to shipments of bare or canistered fuel, the NAC-STC can be used for vitrified high level waste and other specified nuclear materials.

For more than 15 years, the NAC-STC has been the workhorse transport cask design in successful international used fuel management programs employing proven, time-tested operational sequences and equipment with minimized risk. As the only U.S. NRC-licensed spent fuel transportation cask successfully deployed in routine transport operations, the NAC-STC is ready to support shipment to Centralized Interim Storage Facilities in the near future.

The NAC-MPC transport-ready canister system relies on the NAC-STC cask for off-site transportation of canisters. The NAC-STC system's durability and safety are verified by rigorous drop, fire, immersion and puncture testing. Impact limiters made of redwood and balsa wood, encased in stainless steel, are attached to each end of the NAC-STC cask for added protection during shipping. The package is shipped in a horizontal position.

NAC-STC STORAGE AND TRANSPORT CASK



NAC-STC SPECIFICATIONS

Diameter:	Outer (neutron shield) – 99 in. Outer (cask body) – 87 in. Cavity – 71 in.
Length:	Overall – 193 in. Cavity – 165 in.
Weight:	Loaded – 116 tons (26 PWR assemblies) Empty – 97 tons Transport – 125 tons

The NAC-STC is licensed for transport under U.S. NRC Certificate of Compliance (CoC) No. 71-9235.

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